

FIG.1

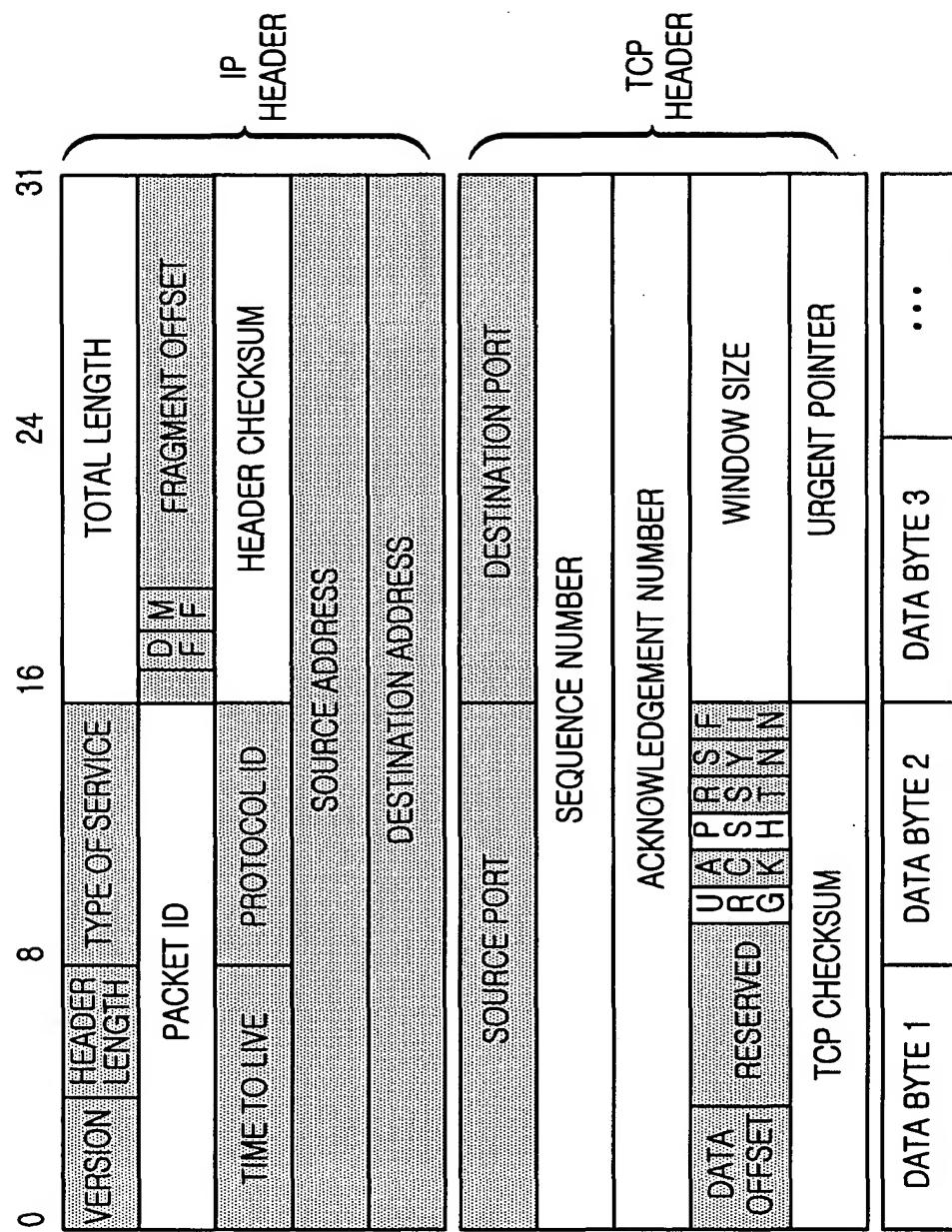


FIG. 2

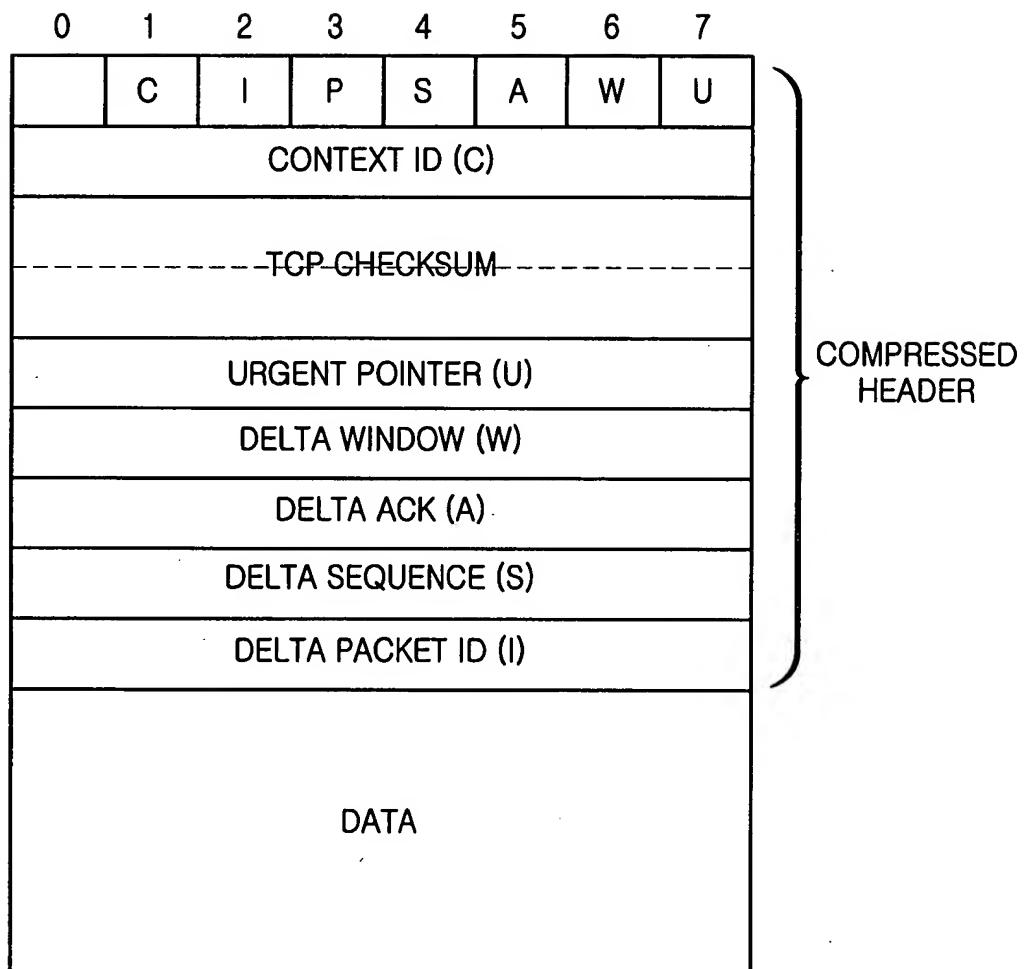


FIG.3

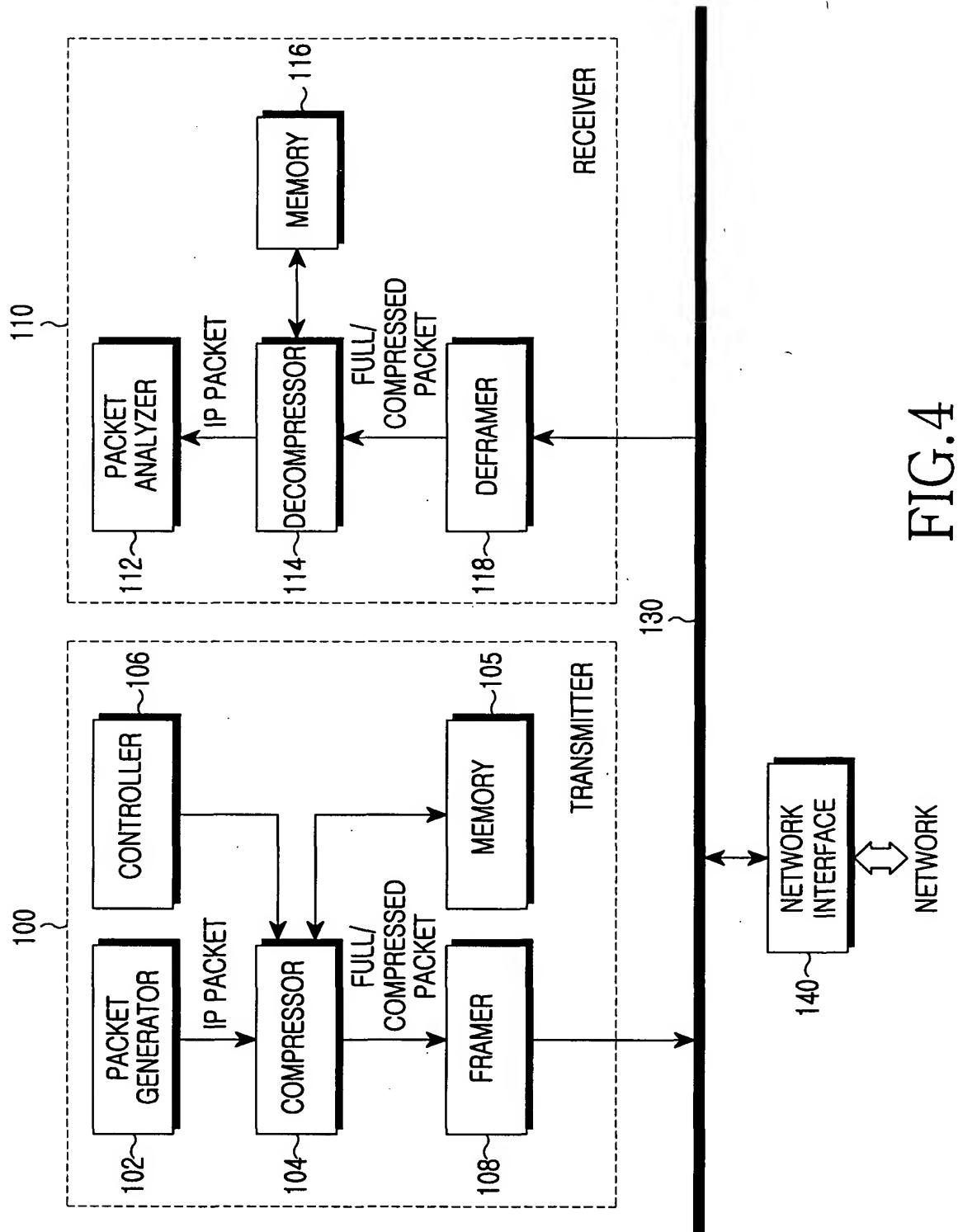


FIG. 4

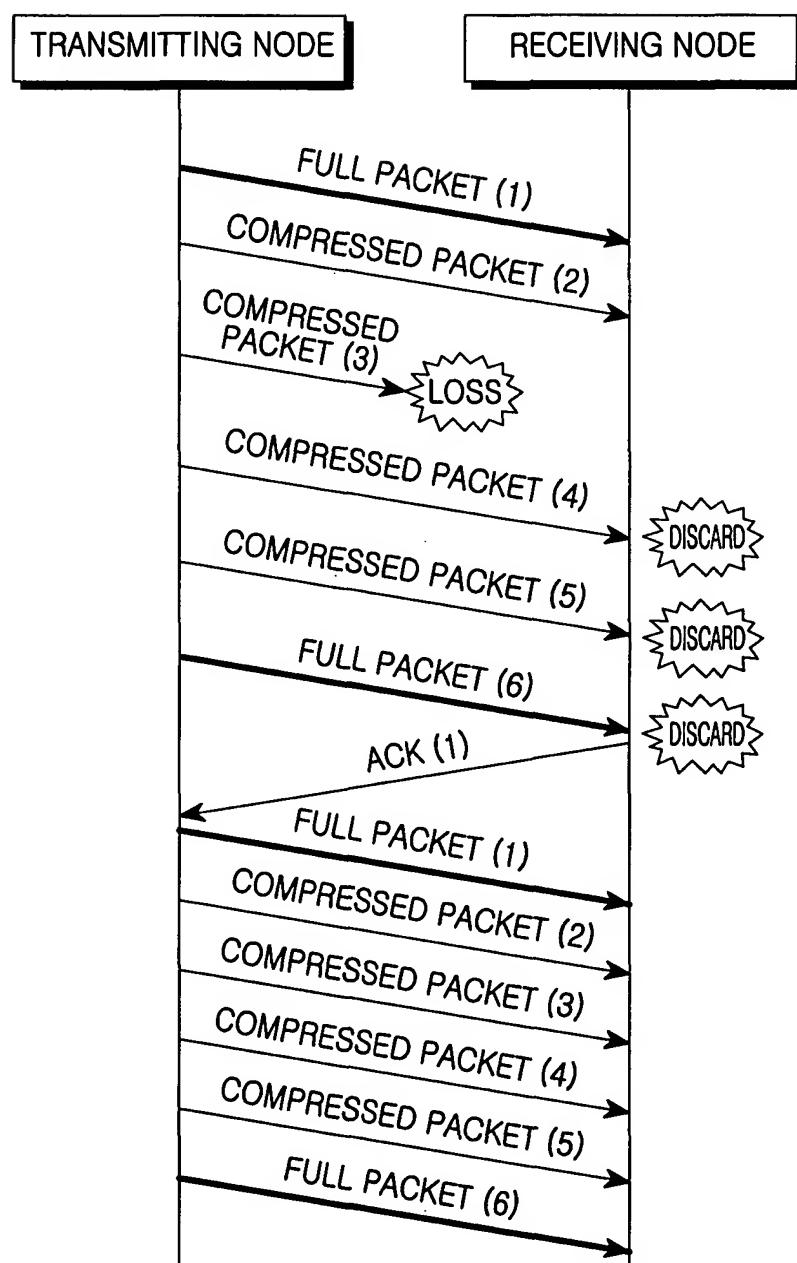


FIG.5

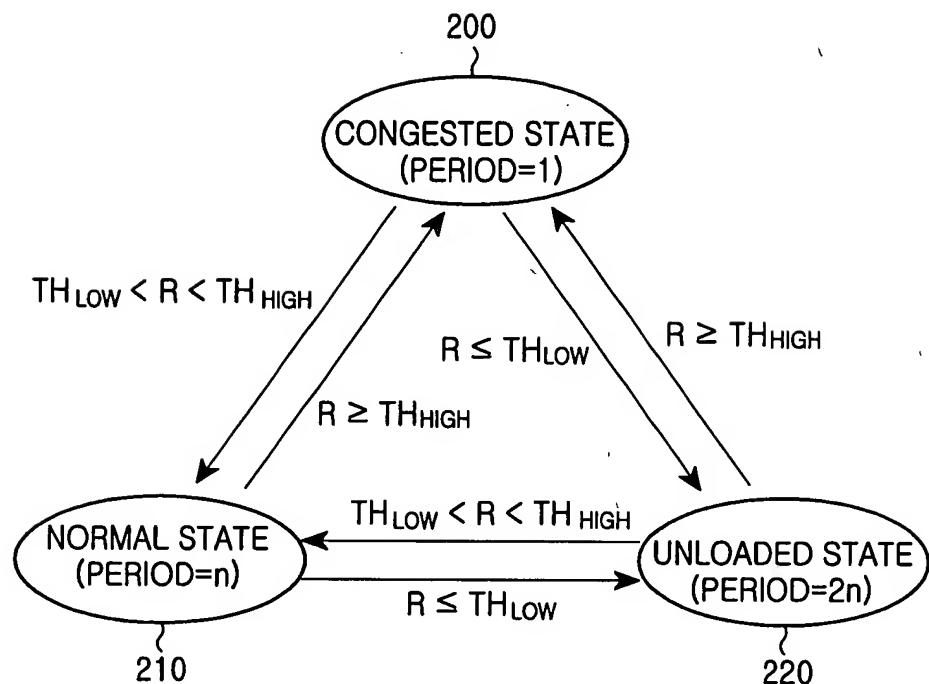


FIG.6

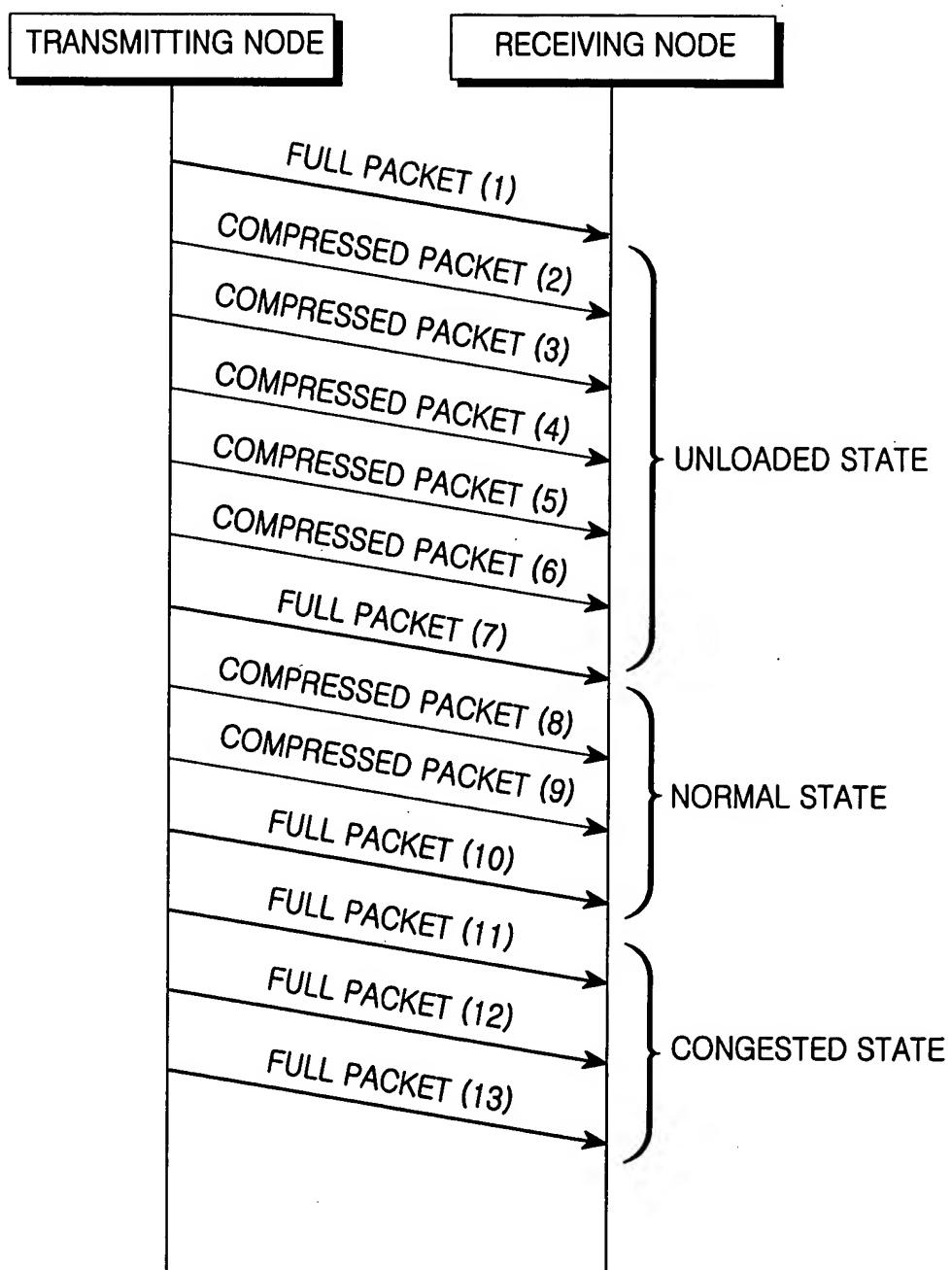


FIG.7

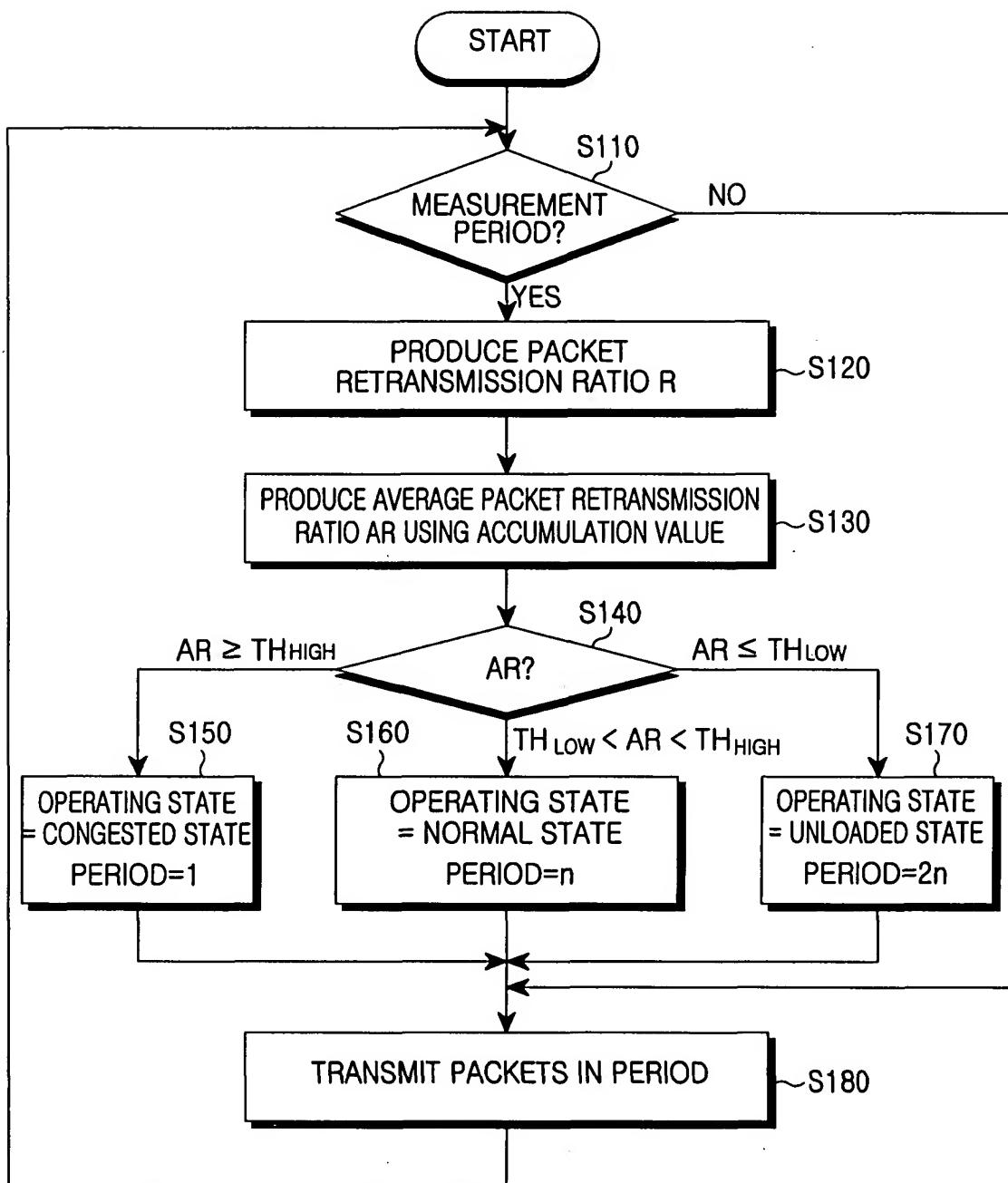


FIG.8

```

#define ALPHA 0.75
#define TH_HIGH 0.10
#define TH_LOW 0.05
// PRODUCE PACKET RETRANSMISSION RATIO (NUMBER OF RETRANSMITTED
// PACKETS/NUMBER OF TRANSMITTED PACKETS) EVERY 5 SECONDS.
(S120) R = RetransPkts / SentPkts;

// PRODUCE AVERAGE PACKET RETRANSMISSION RATIO USING
// LOW-PASS-FILTER FORMULA.
(S130) AR = (1-ALPHA)*AR
      +ALPHA * R;

// CLASSIFY THREE OPERATING STATES ACCORDING TO PACKET
// RETRANSMISSION RATIO, AND DECIDE WHEN FULL PACKET MUST BE
// TRANSMITTED ACCORDING TO EACH OPERATING STATE
if (AR >= TH_HIGH) {
(S150)   State = Congested;
          Period = 1;
    } else if (AvgRetransRate <= TH_LOW) {
(S170)   State = unloaded;
          Period = 2n;
    } else
(S160)   State = Loaded;
          Period = n;
}

// TRANSMIT FULL PACKET IN PERIOD.
(S180) for (i=1; i<=Period; i++) {
        if (i == Period)
          send full packets;
        else
          send compressed packets;
}

```

FIG.9